

WHAT IS CLAIMED IS:

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1. A data communication apparatus which performs data communication between a first equipment performing wireless data transmission and reception according to a first protocol and a second equipment performing data transmission and reception through a bus according to a second protocol, said apparatus comprising:

conversion means for performing format conversion between data according to said first protocol and data according to said second protocol.

2. An apparatus according to Claim 1, wherein said first protocol is a PIAFS (PHS (Personal Handyphone System) Internet Access Forum Standard) protocol, and said second protocol is an IEEE (Institute of Electrical and Electronics Engineers) 1394 Standard protocol.

3. An apparatus according to Claim 1, wherein said conversion means converts packet data according to a protocol of a transmission-side equipment into packet data according to a protocol of a reception-side equipment.

4. An apparatus according to Claim 1, wherein said conversion means converts at least any of a recording format and a compression format.

each of said first and second equipments includes  
5 at least any of an image pickup function, a video  
reproduction function, a video recording function and a  
video display function.

7. A data communication system which includes a first equipment for performing wireless data transmission and reception according to a first protocol, a second equipment for performing data transmission and reception through a bus according to a second protocol, and a data communication apparatus for performing data communication between said first equipment and said second equipment, characterized in that

25        said data communication apparatus comprises  
conversion means for performing format conversion  
between data according to said first protocol and data  
according to said second protocol.

8. A data communication system which includes a first equipment for wirelessly transmitting data, a home station for receiving the data wirelessly transmitted from said first equipment, and a second equipment connected to said home station through a home bus, characterized in that

said home station performs format conversion of the data wirelessly transmitted from said first equipment, so as to adapt the received data for said home bus, and then said home station transmits the converted data to said second equipment through said home bus.

9. A system according to Claim 8, wherein each of said first and second equipments includes at least any of an image pickup function, a video recording function, a video reproduction function and a video display function.

10. A system according to Claim 8, wherein the wireless data transmission is performed by data transfer according to a PIAFS protocol, the data transmission through said home bus is performed by data transfer according to an IEEE 1394 Standard protocol, and

said home station performs the format conversion by changing the data in packet data of each protocol.

11. A system according to Claim 10, wherein said home station also converts at least any of a recording format and a compression format.

5 12. A data communication system which includes a first equipment for performing wireless data transmission and reception, a second equipment for performing data transmission and reception through a home bus, and a home station for performing wireless  
10 data transmission and reception with said first equipment and performing data transmission and reception with said second equipment through said home bus, characterized in that

15 said home station performs format conversion between the data wirelessly transmitted and received by said first equipment and the data transmitted and received by said second equipment through said home bus.

20 13. A data communication system which includes a wireless telephone equipment, a home station for performing transmission and reception of wireless data with said wireless telephone equipment, and a controlled equipment connected to said home station  
25 through a home bus and controlled according to equipment control data on said home bus, characterized in that

said home station performs format conversion between equipment control data included in the wireless data and the equipment control data on said home bus.

5 14. A system according to Claim 13, wherein said wireless telephone equipment includes an operation panel capable of changing a screen in correspondence with the wirelessly transmitted equipment control data.

10 15. A data communication method which performs data communication between a first equipment performing wireless data transmission and reception according to a first protocol and a second equipment performing data transmission and reception through a bus according to a second protocol, said method comprising:  
15 a conversion step of performing format conversion between data according to said first protocol and data according to said second protocol.

20 16. A method according to Claim 15, wherein said first protocol is a PIAFS protocol, and said second protocol is an IEEE 1394 Standard protocol.

25 17. A method according to Claim 15, wherein said conversion step includes a step to convert packet data according to a protocol of a transmission-side equipment into packet data according to a protocol of a

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reception-side equipment.

18. A method according to Claim 15, wherein said conversion step includes a step to convert at least any of a recording format and a compression format.

19. A method according to Claim 15, wherein the data which is an object of the data transmission and reception includes video data, and

each of said first and second equipments includes at least any of an image pickup function, a video reproduction function, a video recording function and a video display function.

20. A method according to Claim 15, wherein the data wirelessly transmitted by said first equipment includes control data for controlling an operation of said second equipment.

21. A storage medium which computer-readably stores a process step of performing data communication between a first equipment performing wireless data transmission and reception according to a first protocol and a second equipment performing data transmission and reception through a bus according to a second protocol, said process step comprising:  
a conversion step of performing format conversion

between data according to said first protocol and data  
according to said second protocol.

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